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1   The logical disk: a new approach to improving file systems

Wiebren de Jonge, M. Frans Kaashoek, Wilson C. Hsieh
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Logical Disk (LD) defines a new interface to disk storage that separates file management and disk management by using logical block numbers and block lists. The LD interface is designed to support multiple file systems and to allow multiple implementations, both of which are important given the increasing use of kernels that support multiple operating system personalities.A log-structured implementation of LD (LLD) demonstrates that LD can be implemented efficiently. LLD adds about 5% to 10% ...

Keywords: MINIX, UNIX, disk storage management, file system organization, file system performance, high write performance, log-structured file system, logical disk

2   Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70
Publisher: ACM Press
Full text available: 📄 pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

3   A methodology for supporting existing CODASYL databases with new database machines

Jayanta Banerjee, David K. Hsiao
January 1978 **Proceedings of the 1978 annual conference - Volume 2**

Publisher: ACM Press

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, an attempt is made to show that conventional database management system software, in particular those of CODASYL type, can be effectively replaced by database machines with good performance. The replacement of CODASYL system software involves two main steps: (i) In order to preserve the notions of CODASYL records, sets,-areas, and others, we need a methodology for database transformation so that an existing CODASYL database may be transformed into suita ...

Keywords: CODASYL data model, DBC, Database machines, Database management systems, Database transformation, Network data model, Query translation, Relative performance.

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